

Attorney Docket No.: 01641/100K021-US1

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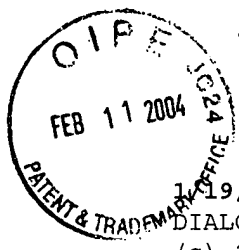
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Information Disclosure Statement (2 pages)
IDS (Citation) by Applicant (1 page)
2 References Cited
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DIALOG(R) File 351:Derwent WPI
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011637084 **Image available**

WPI Acc No: 1998-053992/ 199806

XRPX Acc No: N98-042707

**Catadioptric system for object image projection ion photolithography -
comprises first and second imaging systems with optical axes and concave
mirror, with associated light flux separator**

Patent Assignee: NIKON CORP (NIKR)

Inventor: OMURA Y

Number of Countries: 003 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19726058	A1	19980102	DE 1026058	A	19970619	199806 B
JP 10010431	A	19980116	JP 96180013	A	19960620	199813
KR 98005328	A	19980330	KR 9721294	A	19970528	199904

Priority Applications (No Type Date): JP 96180013 A 19960620

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19726058	A1	20		G03F-007/20	
JP 10010431	A	12		G02B-017/08	
KR 98005328	A			H01L-021/027	

Abstract (Basic): DE 19726058 A

The system has a first imaging system (S1), with an optical axis, and which effects a magnification. The light from the object (m) is received by the imaging system and deflected by its concave mirror (CM) to generate an intermediate image.

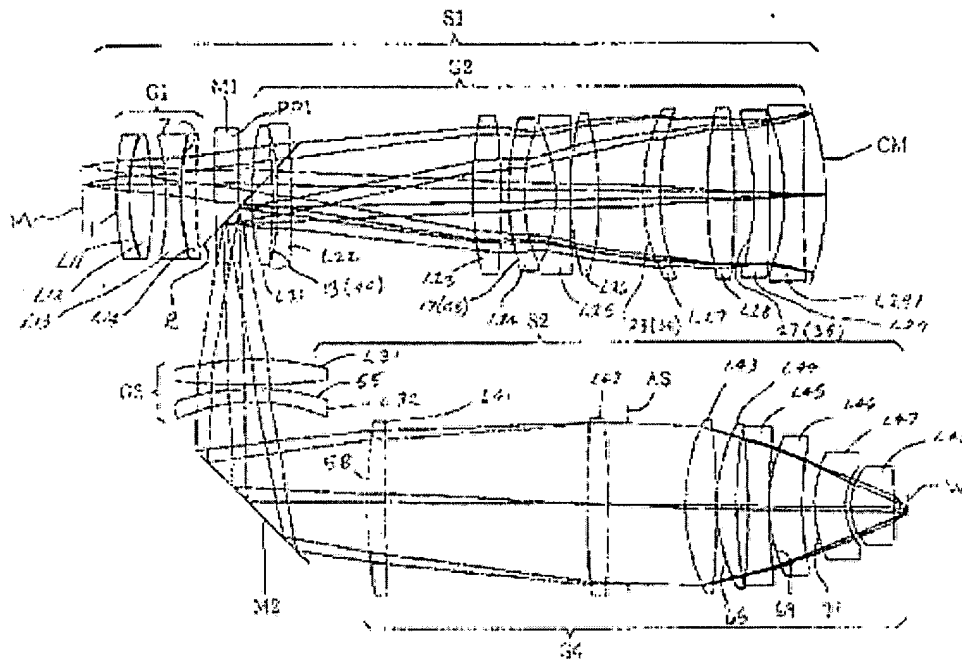
A second imaging system (S2), with an optical axis, receives the light from the intermediate image and generates a reduced size image of the object on the substrate (w). A light flux separator (M1), near the intermediate image, either passes light from the object to the concave mirror, or passes the mirror reflected light to the second imaging system.

USE - For manufacture of integrated circuits.

ADVANTAGE - High work spacing, high resolution images, and suitable for use with shortwave light.

Dwg.1/4

C:\Program Files\Dialog\DialogLink\Graphics\378.bmp



Title Terms: CATADIOPTRIC; SYSTEM; OBJECT; IMAGE; PROJECT; ION;
 PHOTOLITHOGRAPHIC; COMPRISE; FIRST; SECOND; IMAGE; SYSTEM; OPTICAL; AXIS;
 CONCAVE; MIRROR; ASSOCIATE; LIGHT; FLUX; SEPARATE
 Derwent Class: P81; P84; U11
 International Patent Class (Main): G02B-017/08; G03F-007/20; H01L-021/027
 International Patent Class (Additional): G02B-013/14; G02B-013/18;
 G02B-013/24
 File Segment: EPI; EngPI
 Manual Codes (EPI/S-X): U11-C04C2; U11-C04E2